

(3 Hours)

Total Marks: - 80

- N.B.** (1) Question No. 1 is compulsory.
 (2) Attempt any **four** from the remaining **six** questions.
 (3) Illustrate answers with neat sketches wherever required.
 (4) Answers to questions should be **grouped** and written **together**.
- Q. 1** (a) A video can have duration (T) of 1 hour, a frame size of 640x480 at a color depth of 24 bits and a frame rate of 25 fps. Calculate the video size? **10**
- (b) Given a string, ABRACADABRA. Generate Huffman code tree? Show weight order and how many bits are required to transmit the complete string ABRACADABRA. **10**
- Q.2** (a) What is Multimedia? Explain various elements of multimedia? **08**
- (b) Explain in detail various principles of animation? **07**
- Q.3** (a) Explain in detail Bitmap images and Vector drawing Images? Differentiate between Bitmaps and Vector drawn objects **08**
- (b) Explain analog display standards and digital display standards in detail. **07**
- Q.4** (a) What is MIDI and Digital audio? Compare and contrast the use of MIDI and digitized audio in multimedia applications. **08**
- (b) Explain multimedia authoring tools and its different types in detail? **07**
- Q.5** (a) Describe any two methods for delivering a multimedia project? Discuss the benefits and drawbacks of each method. **08**
- (b) Explain various considerations involved in recording and editing a digital audio. **07**
- Q.6** (a) List and discuss various stages of making multimedia project with diagram. **08**
- (b) What is Compression? Explain JPEG Compression process in detail. **07**
- Q.7** Write the short notes on any three **15**
- (a) Multimedia Conferencing
- (b) Hot Spots, Hyperlinks and Buttons
- (c) Animation Techniques
- (d) Image File Formats
- (e) MPEG Standards